DATA SHEET

20774004 ESMALTE GRES O-10131/1 AZUL R. POLV 18/11/2025 v1.2

1. PRODUCT IDENTIFICATION

Description

BLUE GLAZE. It belongs to high temperature glazes, with high rutile content. The result can be opaque matte, or satin. The final effect can be different depending on firing temperature, coat of glaze and kind of biscuit. The result will vary depending on the used body, temperature, cycle and atmosphere. Compound of frit: CAS Nº. 65997-18-4.

Application

They can be applied by brush, spraying or dipping in single- and double-fired. For one firing it's advisable the addition of Monocol V. Temperature range 1200°C - 1340°C, recommended temperature 1260°C. It is advisable to test at extreme temperatures.

2. CHEMICAL COMPOSITION

Metal oxides with concentrations less than 0.05% have not been determined.

Li_2O		ZnO		Cr_2O_3		CaF_2			
Na_2O	1-5	MnO		B_2O_3		Bi_2O_3		Co3O4	0.5-1
K_2O	1-5	CdO		V_2O_5		P_2O_5		MEDIUM	0-0.5
MgO	0-0.5	CoO		MnO_2		BeO		LOI	10-20
CaO	10-20	NiO	0.5-1	SiO_2	40-80	CeO_2			
SrO		Al_2O_3	5-10	TiO_2	5-10	CuO			
BaO		Fe_2O_3	0.5-1	ZrO_2	0-0.5	Pr_2O_3			
PbO				SnO_2					

3 PHYSICAL-CHEMICAL PROPERTIES

Aspect	Beige powder
Color(fired)	Blue

4. COLORIMETRY

* By Minolta ChromaControl (S)

L: 65.1 a: -2.4 b: -1.6

5. DILATOMETRY

* Data obtained with dilatometer BÄHR mod. DIL 801 L 10^{-7} C^{-1}

(25-300)C°	(50-300)C°	(300-500)C°	(500-600)C°	Tª Transformation	Tª Softening	Melting point
72.6	73.9	83.2	102.6	559 Cº	872 Cº	Cº
						Mis

6. GRANULOMETRIC DISTRIBUTION (WET WAY)

* Data obtained by Malvern Instruments (Master Sizer 2000)

>10µ	>25µ	>40µ	>70µ	>120µ	D50µ
47.1	18.5	7.3	1.0	0.0	9.1

7. RECOMMENDATIONS ON GLAZED OBJECTS INTENDED FOR CULINARY USE

Formulated without lead and cadmium.

Notes: n.a (not applicable), n.d (no information available), p.n (negative tests)

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